

Amendments to the Specification:

Please replace paragraph 2 beginning on page 1, with the following rewritten paragraph:

a1 [0002] Mass spectrometry is now a well-established technique for analyzing substances by separating ions due to their differing mass to charge [~~change~~] ratios. A wide variety of mass spectrometers and ionization techniques are known. The present invention is particularly, although not exclusively, concerned with electrospray-generated ions, and more particularly the use of this ionization technique with large organic molecules.

Please replace paragraph 53 beginning on page 12, with the following rewritten paragraph:

a2 [0053] As shown, as the voltage on [~~of~~] IQ3 is progressively reduced, ions begin to leak out at an increasing rate, which peaks at approximately 0.27 seconds and declines down to a minimum at approximately 0.5 seconds, this being primarily singly charged ions escaping. After 0.50 seconds, as the barrier is decreased further, another small peak occurs, as indicated by the circled area, this being primarily the doubly charged ions escaping from the ion trap.